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NOTICE OF ALLOWANCE AND FEE(S) DUE

22428 7590 07/28/2009
FOLEY AND LARDNER LLP
SUITE 500
3000 K STREET NW

WASHINGTON DC 20007

EXAMINER				
BRANDT, CHRISTOPHER M				
ART UNIT	PAPER NUMBER			
2617				
DATE MAILED: 07/28/2009				

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/765,124	01/28/2004	Koichi Tamura	045054-0157	2246		
TITLE OF INVENTION: CIRCUIT, METHOD, AND PROGRAM IN A CDMA COMMUNICATION SYSTEM FOR OUICKLY TRACKING A STABLE						

PATH

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/28/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GARAT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	of transmitting the 1336 g the Patent, advance of herwise in Block 1, by (a	rders and notification of r a) specifying a new corres	naintenance fees wi pondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for
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22428 EOL EX. AND	7590 07/28 LARDNER LLP	/2009		Cert	ificate	of Mailing or Trans	mission
SUITE 500 3000 K STREET	ΓNW		I he Stat addi tran	reby certify that this es Postal Service w ressed to the Mail smitted to the USPI	s Fee(: ith suf Stop O (57	i) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the d	g deposited with the United at class mail in an envelope above, or being facsimile ate indicated below.
WASHINGTON	I, DC 20007						(Depositor's name)
			_				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/765,124 TITLE OF INVENTION PATH	01/28/2004 E: CIRCUIT, METHOD,	AND PROGRAM IN A	Koichi Tamura CDMA COMMUNICATI	ON SYSTEM FOR		045054-0157 KLY TRACKING A	2246 STABLE
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	10/28/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS]			
BRANDT, CH	RISTOPHER M	2617	370-335000				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Uni recordation as set fort	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	'Indication form ed. Use of a Customer A TO BE PRINTED ON		vely, e firm (having as a agent) and the name rneys or agents. If n printed. be) atent. If an assigne assignment.	memb s of u so nam	er a 2	ocument has been filed for
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4a. The following fee(s) Issue Fee Publication Fee (N	vo small entity discount p		o. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038	is atta	ched.	shown above) ficiency, or credit any n extra copy of this form).
- 11	s SMALL ENTITY state	is. See 37 CFR 1.27.	☐ b. Applicant is no lon				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	ired) will not be accepte tes Patent and Trademark	d from anyone other than t Office.	he applicant; a regis	tered :	attorney or agent; or th	ne assignee or other party in
Authorized Signature				Date			
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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SUITE 500			ART UNIT	PAPER NUMBER			
	3000 K STREET NW WASHINGTON, DC 20007		2617 DATE MAILED: 07/28/2009				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 672 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 672 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/765,124 TAMURA, KOICHI Notice of Allowability Examiner Art Unit CHRISTOPHER M. BRANDT 2617 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to applicant's amendment filed on July 7, 2009. The allowed claim(s) is/are 2-6,9-12,15-18 and 21-24. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🔯 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material

9. 🔲 Other _____.

Supervisory Patent Examiner, Art Unit 2617

/George Eng/

U.S. Patent and Trademark Office

/Christopher M Brandt/

Examiner, Art Unit 2617

Application/Control Number: 10/765,124

Art Unit: 2617

Examiner's Statement of Reasons for Allowance

Claims 2-6, 9-12, 15-18, and 21-24 are allowed.

The following is an examiner's statement of reasons for allowance:

Applicant's invention is drawn to a system, method, and a stored computer readable medium for path searching a stable path. In particular, applicant monitors a change in a power level of a sample of two or more delay profiles and assigns a weight to a power level of a specified sample. This weighting assignment depends upon a number of samples of a candidate. The benefit of the weighting assignment that is not taught by the prior art is that when the number of samples of the candidate is 1, then a negative weight is assigned to a power level of the sample. Therefore, applicant has found a procedure for determining a threshold value to detect a high power level.

Applicant's independent claims each recite, *inter alia*, a weighting controlling section, when the number of samples of said candidate for said weighting control is 1 (one), assigns negative weight to a power level of the sample, the negative weight being a weighting value less than 0 (zero). Applicant's independent claims comprise a particular combination of elements, which is neither taught nor suggested by the prior art. Miya teaches a path-searcher derives the current power delay profile. The delay powers received during the current path-searcher activation are first selected with the largest powers. Each selected power is ranked and given a ranking weight. Moreover, the contribution of delay number is added to the power delay profile discrepancy variable B (paragraph 71). Jonsson discloses selecting two weighting factors of path A and path B when both have equivalent levels of power. However, Miya, Jonsson, the cited

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references, and a thorough search fail to teach the assignments of negative weights to a power level of the sample.

Accordingly, applicant's invention is allowed for these reasons and the reasons recited by applicant in the amendments, arguments, and the pre-appeal.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any response to this Office Action should be faxed to (571) 273-8300 or mailed to:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Hand-delivered responses should be brought to

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314 Application/Control Number: 10/765,124

Art Unit: 2617

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher M. Brandt whose telephone number is (571) 270-1098. The examiner can normally be reached on 7:30a.m. to 5p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on (571) 272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600

/Christopher M. Brandt/ C.M.B./cmb July 22, 2009

/George Eng/ Supervisory Patent Examiner, Art Unit 2617